

Appln. No.: 10/779,459
Amndt. dated November 15, 2005
Reply to Office Action of July 15, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for increasing the crystallization temperature of an iron based glass alloy comprising:

(a) supplying an iron based glass alloy wherein said has a melting temperature, and a crystallization temperature and a reduced crystallization temperature, wherein said reduced crystallization temperature is the ratio of the crystallization temperature to the melting temperature;

(b) adding to said iron based glass alloy lanthanide element;

(c) increasing said crystallization temperature and said reduced crystallization temperature by addition of said lanthanide element, wherein said reduced crystallization temperature is increased by at least 8 percent.

2. (Original) The method of claim 1 wherein said melting temperature of said iron based glass alloy prior to addition of said lanthanide element is substantially the same as to the melting point of the alloy subsequent to addition of said lanthanide element.

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3. (Currently Amended) The method of claim 1 wherein the concentration of said lanthanide element added to said iron based glass alloy is in the range of 0.10 atomic % to 50.0 atomic %.[N]

4. (Original) The method of claim 1 wherein the concentration of said lanthanide element added to said iron based glass alloy is in the range of 1.0 atomic % to 10.0 atomic %.

5. (Original) The method of claim 1 wherein said lanthanide element is selected from the Lanthanide series consisting of cerium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, lutetium, lanthanum, and mixtures thereof.

6. (Currently Amended) A method for increasing a crystallization onset temperature of an iron based alloy comprising:

supplying an iron based alloy comprising 30-90 atomic percent iron, said alloy having a crystallization temperature less than 675° C and a reduced crystallization temperature;

addition to said iron based alloy a lanthanide element;

increasing said crystallization onset temperature above 675° C. by the addition of said lanthanide element and increasing said reduced crystallization temperature at least 8%.